

# Annville-Cleona School District

**Course:** Geometry

**Credit Hours:** 1

**Prerequisites:** A grade of “C” or better in Algebra I

**Instructor:** Mr. Lamb

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**Course Description:** The course integrates synthetic, coordinate, and transformation approaches to geometry. Algebraic concepts are reinforced and extended throughout the text. A slow and careful understanding of proofs is developed. Uses of geometry in real world applications are studied and discussed.

## Course Objectives:

Students will...

- Work with two-dimensional and three-dimensional objects and ideas.
- Use logic and proofs to enhance the concept of argument.
- Apply postulates and theorems in both two and three dimensions.
- Study the connections among shapes and solids.

## Materials Needed:

**Text**—Geometry by Carter, Cuevas, Day, Malloy, and Cummins, The McGraw-Hill Companies, 2010.

**Others**—Pencil, calculator (TI-84 Plus Silver recommended, any TI-83, TI-84, or TI-nSpire (non-CAS) will work), and a three-ring binder to keep as a notebook.

**Course Requirements:** Students are to keep a tidy notebook of notes, problem sets, quizzes, tests, and other handouts that are provided as we progress through the course. Quick Checks will be given for nearly every lesson. Upon completion of problem sets, students will show understanding of the materials through these. Quizzes will be given to make sure students are mastering the content, with tests to follow up on that mastery. Students

will also work with others on problem sets. The textbook should be read by the student, and all lessons will be viewable by electronic means.

**Assessment/Grading Procedures:** Quarter grades are determined on a weighted scale. Chapter tests: 40%, Quizzes: 25%, Homework (problem sets and notes): 10%, Participation: 5%, Miscellaneous: 20%. There will be 2-3 tests and 4-8 quizzes per quarter. Problem sets are checked for completeness (Homework) and assessed through Quick Checks (Miscellaneous). Participation is recorded in the grade book weekly. In order to earn all points for class participation, you need the following items with you **EVERY DAY**: Your textbook, notebook, calculator, and **PENCIL**. You will lose points if you are unprepared or are disruptive, not being active in class, or late to class. Miscellaneous assignments are items such as notebook checks, in-class or take home graded work, and projects. Quizzes and tests will not be handed back until everyone has completed them. Quizzes, tests, and projects are all ZAP-pable assignments.

**Expectations (Attendance/Participation):** Attendance and participation are both musts! Mathematics is not a spectator sport! Complete and organize all notes and handouts. Definitions and examples are the bulk of the notes, and any handouts must also be kept in an organized binder. Any missed work *must* be made up the next day of class, either in class, during a study hall, or after school. Exceptions may be made for extended absences.

**Additional Information:** All assignments *must* be completed with a pencil. Any assignment turned in done in pen will suffer a 10% deduction of the original possible score. I will challenge you to learn math as best you can, and I will help you as much as I can. It is up to you as to how well you do. If you are determined to do well, then you will do so.